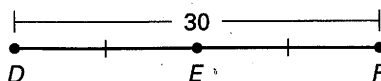


# Quiz 1

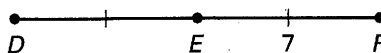
For use after Lessons 2.1–2.3

$E$  is the midpoint of  $\overline{DF}$ . Find the segment lengths.

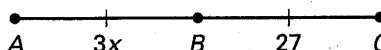
1. Find  $DE$  and  $EF$ .



2. Find  $DE$  and  $DF$ .



3.  $B$  is the midpoint of  $\overline{AC}$ .  
Find the value of  $x$ .



Find the coordinates of the midpoint of  $\overline{AB}$ .

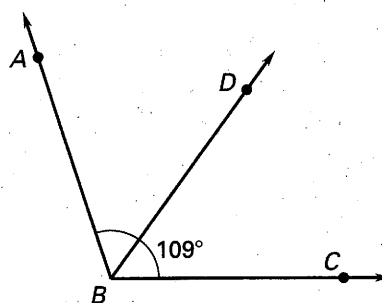
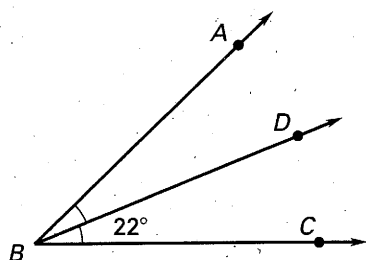
4.  $A(7, -4)$ ,  $B(5, 2)$

5.  $A(-3, -2)$ ,  $B(9, 6)$

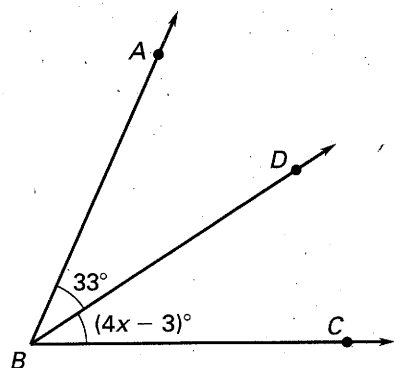
$\overrightarrow{BD}$  bisects  $\angle ABC$ . Find the angle measure or variable.

6. Find  $m\angle ABD$ .

7. Find  $m\angle DBC$ .



8. Find the value of  $x$ .



In Exercises 9–11, determine whether  $\angle F$  and  $\angle G$  are complementary, supplementary, or neither.

9.  $m\angle F = 29^\circ$ ,  $m\angle G = 61^\circ$

10.  $m\angle F = 159^\circ$ ,  $m\angle G = 11^\circ$

11.  $m\angle F = 37^\circ$ ,  $m\angle G = 37^\circ$

12. The measure of  $\angle M$  is  $56^\circ$ . Find the measure of a complement and a supplement of  $\angle M$ .

## Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_